CERTIFICATE OF ACCREDITATION

This is to attest that

ADVANTAGE CALIBRATION & TESTING SERVICES (IMTIAZ ALTAFOWQ FOR INDUSTRIAL SERVICES)

2ND STREET, AL ANOUD
DAMMAM, 32426, KINGDOM OF SAUDI ARABIA

Calibration Laboratory CL-250

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 23, 2023

Expiration Date January 1, 2025

IAS ACCREDITED

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.
3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ADVANTAGE CALIBRATION & TESTING SERVICES (IMTIAZ ALTAFOWQ FOR INDUSTRIAL SERVICES)

C.R. NO. 2050066469

Contact Name Gemalli Gelig **Contact Phone** +966 13 8343543

Accredited to ISO/IEC 17025:2017 *Effective Date February 23, 2023*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Vernier Caliper	Up to 300 mm	40 µm	Gauge Block Set by direct method Cal Procedure - CAL-WI-001& NPL Guide No.40
Micrometer	Up to 100 mm	1.2 µm	Gauge Block Set by direct method Cal Procedure - ACTS-LA-CA-CP004B & NPL Guide No.40
Dial Thickness Gauge	Up to 10 mm	0.96 µm	Gauge Block Set by direct method Cal Procedure - CAL-WI-013B & NPL Guide No.40
Mechanical			
Pressure Gauges, Pressure Calibrators, Pressure Switches, Pressure Transmitters	0 bar to 700 bar 700 bar to 1000 bar	1.3 bar 2.0 bar	Digital pressure gauge & Pressure Pump by comparison method Cal procedure - CAL-WI-005 & Euramet cg-17
Thermal			
RTD, Thermocouple, Temperature Indicator with Sensor, Temperature Gauges, Temperature Transmitters	0 °C to 140 °C 140 °C to 500 °C	0.29 ˚C 0.37 ˚C	Temperature Calibrator by direct method Cal procedure - CAL-WI-002C & SASO Euramet cg-11.01

** If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.*

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Electrical – DC/LF			
DC Voltage Generate[3]	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V	8.6 µV 1 mV 1.4 mV 42 mV 58 mV	Multifunction Calibrator by direct method Cal procedure – CAL-WI-003C & Euramet cg-15/
AC Voltage Generate[3] (50 Hz)	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 900 V	57 µV 0.1 mV 1.2 mV 7.5 mV 58 mV	Multifunction Calibrator by direct method Cal procedure – CAL-WI-003C & Euramet cg-15/
DC Current Generate[3]	0 mA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 10 A 10 A to 1000 A	1 µA 1.3 µA 13 µA 5 mA 0.15 A	Multifunction Calibrator by direct method Cal procedure – CAL-WI-003C & Euramet cg-15/
AC Current Generate[3] (50 Hz)	0 mA to 20 mA 20 mA to 200 mA 200 mA to 10 A 10 A to 1000 A	5.3 µA 0.06 mA 7 mA 0.22 A	Multifunction Calibrator by direct method Cal procedure – CAL-WI-003C & Euramet cg-15/
DC Resistance Generate[3]	0 kΩ to 100 kΩ 100 kΩ to 10 MΩ 10 MΩ to 100 MΩ	1.1 Ω 0.58 kΩ 0.58 MΩ	Decade Resistance Box by direct method Cal procedure – CAL-WI-003C & Euramet cg-15

[1]The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

[2]When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

[3]Capability is suitable for the calibration of measuring devices in the stated ranges.